

Technical specification

Customer		Project	006168
Reference		Quotation/Order	
Configuration	ACN 560-380-10 A40 - Bartec Ex 440V 60Hz 4,5kW	Our reference	POI
		Site/System	

Fan:

NovAx ACN 560/380-12 A40

Volume flow	2.10 m³/s
External total pressure	347 Pa
External static pressure	303 Pa
External dynamic pressure	44 Pa
Pressure gain/loss in accessories	0 Pa
Dynamic pressure loss in outlet	0 Pa
Fan total pressure	347 Pa
Blade material	Aluminium
Hub material	Aluminium
Blade angle	40 °
Efficiency	59.2 %
Power	1.23 kW
a-factor	2.71
Speed	1760 rpm
Max. speed	2713 rpm
Altitude of installation	0.0 m
Temperature	20.0 °C
Humidity	50.0 %RH
Inlet	Duct
Outlet	Duct
Total weight of installation	133 kg
Maximum diameter/Width of installation	650 mm
Master product ID	mp-f08
Flange standard	Eurovent 1/2
Moment of inertia	0.31 kgm²
Startup time	0.6 s
Air density	1.20 kg/m³
Overall Static Efficiency	46.5 %
Specific fan power (SFP)	0.651 kJ/m³
Fan Efficiency Index (FEI)	1.36

Motor:

Bartec 4P 4KTC 112 M 4.5kW B14 440-480DV 60Hz

Manufacturer	Bartec
Product code	4KTC 112 M
Rated power	4.5 kW
Max available power	4.5 kW
Rated torque	24 Nm
Rated speed	1760 rpm
Current	2.3 A
Rated current	8.1 A
Starting Current	83.7 A
Supply voltage	3x440 V
Rated voltage	440-480D V
Supply frequency	60 Hz
Actual motor frequency	60 Hz
Insulation class	F
Temperature rise	B
Enclosure	IP55
Efficiency class	IE3
Motor efficiency	89.9 %
Mounting arrangement	B14
Start-up	Direct starting
Windings type	1 speed (1 Winding)
Motor Moment of Inertia	0.01578 kgm²
Motor weight	78.0 kg
Power input	1.366 kW
Classification	Lloyd's
Motor item number	Register of 927815-0 Shipping
Certificate	BVS 13 ATEX E 125 X
<i>Motor fit remark:</i>	
No T-box and with 1,5 m cable	

Terminal Box:

Cable glands (power supply)	M25
Cabel glands (space heater / thermal protection)	M20
Wire size (Power Supply)	6 x 0,14mm² - 6,0mm²
Wire size (Earth)	1 x 0,14mm² - 6,0mm²

Ex marking:



Non-sparking fan according to IACS F29

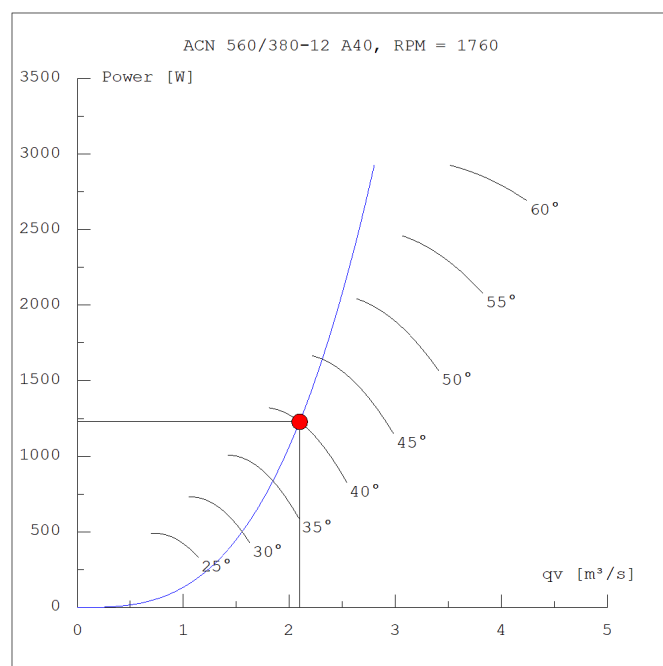
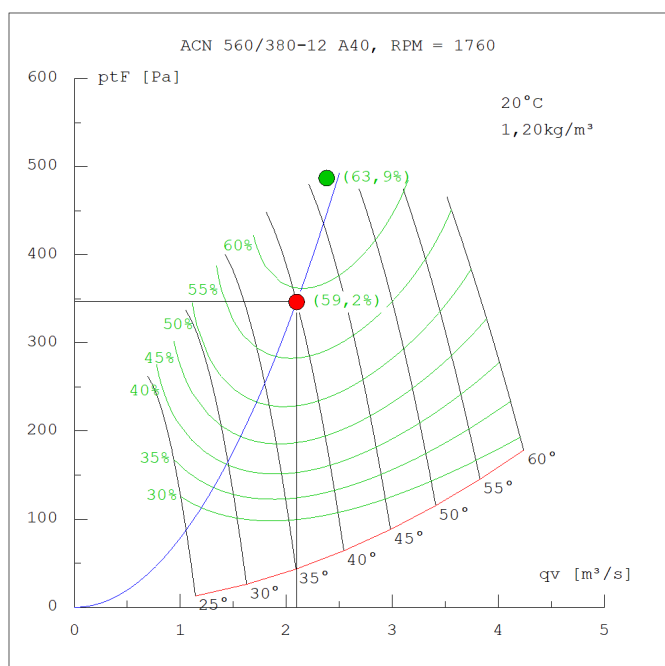
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Accessories:

None selected

Fan curves:



Sound data:

	63	125	250	500	1K	2K	4K	8K	Hz	Total	
Inlet sound power level	75	80	90	89	91	88	84	78	dB	96 dB	95 dB(A)
Fan sound power level	75	80	90	89	91	88	84	78	dB	96 dB	95 dB(A)
Outlet sound power level	75	80	90	89	91	88	84	78	dB	96 dB	95 dB(A)
Breakout sound pressure level	55	57	64	60	59	53	46	37	dB	67 dB	63 dB(A)
Indicative sound pressure level at 3m/45° from the inlet										79 dB	77 dB(A)
Indicative sound pressure level at 3m/45° from the outlet										79 dB	77 dB(A)

Tolerance: ± 3 dB for total sound levels and ± 4 dB for octave bands

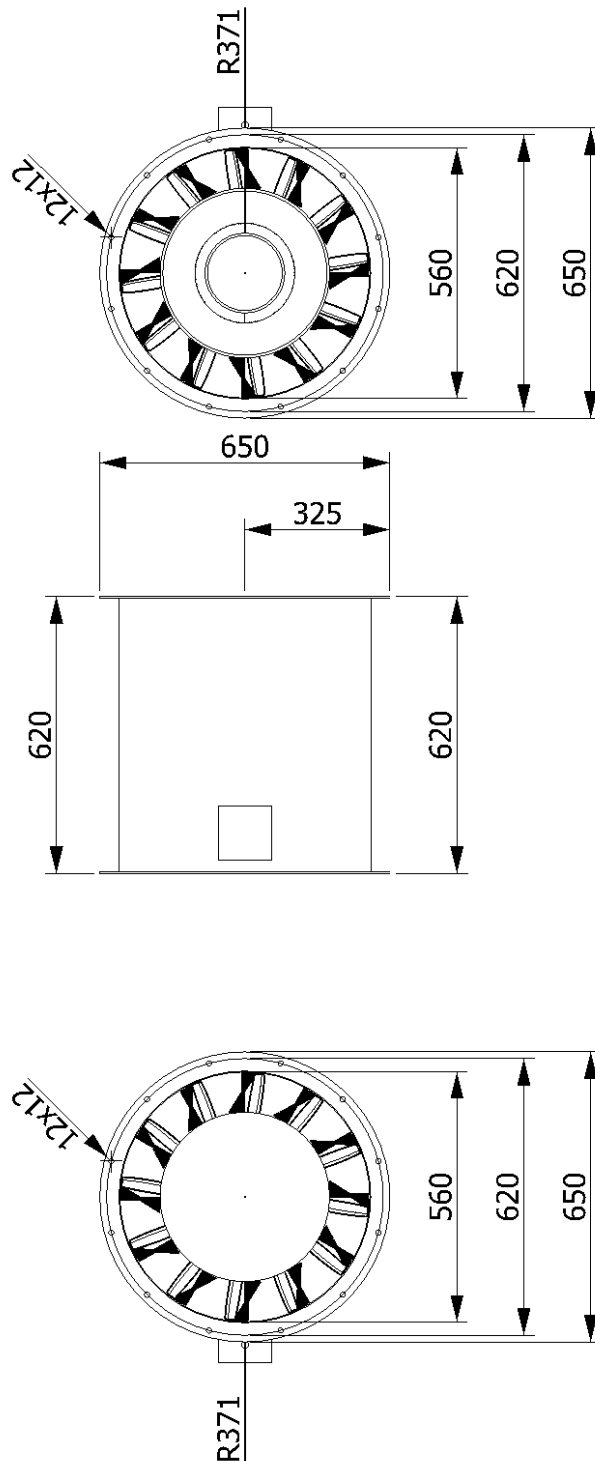
Breakout noise does not take into account flexible connections and other accessories. Breakout noise is measured at 1 meter.

Indicative sound pressure level is under free field conditions at an angle of 45°.

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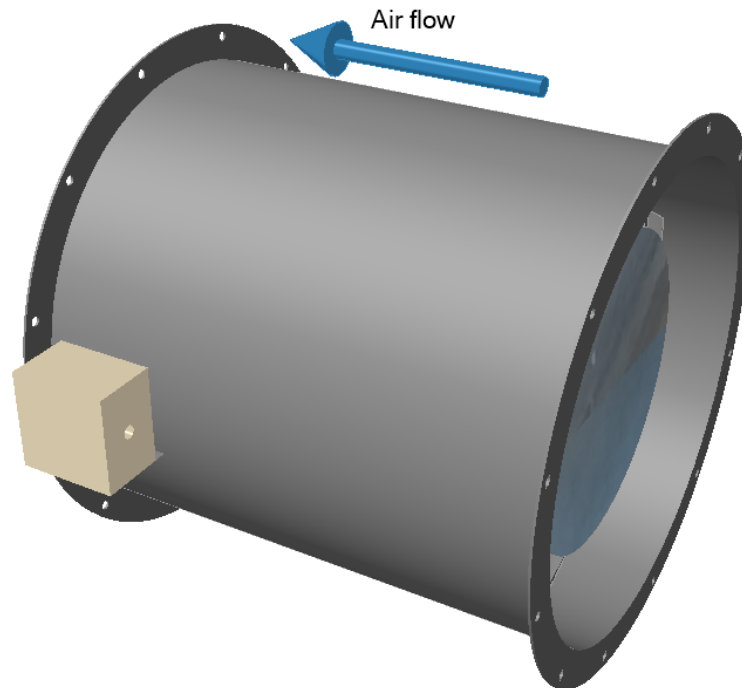
Sketch [mm]:



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Drawing:



Accessories are generally not mounted at delivery. Mounting may occur in specific cases.

Spare parts:

None selected

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Disposal of product:

Disassembly of the fan is described in the installation and maintenance guide. Pure metal and plastic parts can be handed in for recycling directly. Motors containing oil and heavy metals, cables as well as panels with insulation must be treated as environmentally unsafe scrap.